

Negatives Homework



No calculator!

<p style="text-align: center;">Literacy</p> <p>'Negative' is an adjective: It tells you a number is below zero. Eg: 'Negative 2' is the number -2.</p> <p>'Minus' is a verb: It tells you to take away a number. Eg: '5 minus 2' means do $5 - 2$.</p> <p>So: "3 minus negative 4" means: $3 - -4$ (which is 7)</p>	<p style="text-align: center;">Research</p> <p>The very first numbers ever used were the Counting Numbers: $1, 2, 3, 4, \dots$</p> <p>When, and where, were negative numbers first used?</p> <p style="text-align: center;"><i>Remember to include your source!</i></p>	<p style="text-align: center;">Memory</p> <ul style="list-style-type: none">• When you add a positive number, you go up.• When you subtract a positive number, you go down.• When you add a negative number, you go down.• When you subtract a negative number, you go up.
<p style="text-align: center;">Skills</p> <p>1) $14 - 5 =$</p> <p>2) $5 - 14 =$</p> <p>3) $-6 + 8 =$</p> <p>4) $-26 + 3 =$</p> <p>5) $-14 - 103 =$</p> <p>6) $724 - 815 =$</p> <p>7) $-98 - -52 =$</p> <p>8) $-53 - -800 =$</p>		<p style="text-align: center;">Stretch</p> <p>1) $-5 + -5 + -5 + -5 =$</p> <p>2) $-5 \times 4 =$</p> <p>3) $5 \times -4 =$</p> <p>4) $-5 \times -4 =$</p> <p>5) $-3 \times -4 \times -5 =$</p>

You need to **read** and **learn** the **Literacy** and **Memory** sections, **look up** an answer to the **Research** section, **answer all** questions from the **Skills** section, and – unless you have already spent more than 30 minutes – **attempt** the **Stretch** section. Answers can be in your book or on the sheet.

SOLUTIONS

Negatives Homework



No calculator!

Literacy

'Negative' is an adjective:
It tells you a number is below zero.
Eg: 'Negative 2' is the number -2 .

'Minus' is a verb:
It tells you to take away a number.
Eg: '5 minus 2' means do $5 - 2$.

So: "3 minus negative 4" means:
 $3 - -4$
(which is 7)

Research

The very first numbers ever used were the Counting Numbers:
 $1, 2, 3, 4, \dots$

When, and where, were negative numbers first used?

200BC saw red and black rods used for negative and positive in China
Reference to rules of 'fortunes' and 'debts' in Indian works in the 7th century.
Formal arithmetical definitions didn't appear until the 19th century in the UK.
<http://nrich.maths.org/5961>

Remember to include your source!

Memory

- When you **add** a **positive** number, you go **up**.
- When you **subtract** a **positive** number, you go **down**.
- When you **add** a **negative** number, you go **down**.
- When you **subtract** a **negative** number, you go **up**.

Skills

1) $14 - 5 = 9$

2) $5 - 14 = -9$

3) $-6 + 8 = 2$

4) $-26 + 3 = -23$

5) $-14 - 103 = -117$

6) $724 - 815 = -91$

7) $-98 - -52 = -46$

8) $-53 - -800 = 747$

Stretch

1) $-5 + -5 + -5 + -5 = -20$

2) $-5 \times 4 = -20$

3) $5 \times -4 = -20$

4) $-5 \times -4 = 20$

5) $-3 \times -4 \times -5 = -60$

You need to **read** and **learn** the **Literacy** and **Memory** sections, **look up** an answer to the **Research** section, **answer all** questions from the **Skills** section, and – unless you have already spent more than 30 minutes – **attempt** the **Stretch** section. Answers can be in your book or on the sheet.